

**To:** Barkley, Neal E.[nebarkley@CVREnergy.com]  
**Cc:** Develasco, Janice T.[jtdevelasco@CVREnergy.com]  
**From:** Whisnant, Amber  
**Sent:** Mon 2/8/2016 11:08:58 PM  
**Subject:** RE: Another question - RMP inspection - Please respond by COB Wednesday 2/10/16.

Thank you for the clarification. I will add this to the report. Thank you!

Amber Whisnant

Environmental Scientist | US EPA Region 7 | Chemical Risk Information Branch | Air and Waste Management Division

11201 Renner Blvd | Lenexa, KS 66219 | (913) 551-7212 (Office) | (913) 551-9212 (Fax)

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**From:** Barkley, Neal E. [mailto:nebarkley@CVREnergy.com]  
**Sent:** Monday, February 08, 2016 4:02 PM  
**To:** Whisnant, Amber <Whisnant.Amber@epa.gov>  
**Cc:** Develasco, Janice T. <jtdevelasco@CVREnergy.com>; Barkley, Neal E. <nebarkley@CVREnergy.com>  
**Subject:** RE: Another question - RMP inspection - Please respond by COB Wednesday 2/10/16.

Amber,

A little clarification is in order.

We cold lime soften the river water and add bleach to the softened water that comes up to the plant. Boiler water is treated by reverse osmosis, and no oxidizing biocides are used in the boiler system.

The circulating cooling tower water is treated with chlorine dioxide for micro-biological control. Chlorine dioxide is made on-site on demand through a proprietary Nalco process using two bulk chemicals, neither of which is hazardous. No chlorine dioxide is stored on-site. It is mixed into the circulating water as it is made. This is the replacement to the chlorine gas that was previously used.

-Neal

**From:** Whisnant, Amber [<mailto:Whisnant.Amber@epa.gov>]  
**Sent:** Monday, February 08, 2016 3:22 PM  
**To:** Barkley, Neal E.  
**Subject:** Another question - RMP inspection - Please respond by COB Wednesday 2/10/16.

Neal,

I hope you are doing well since we last spoke. I'm contacting you because I have a follow up question from the RMP inspection. You indicated that CRNF discontinued the use of chlorine for treating water from the river for the boiler and cooling towers. You stated that you use chlorine dioxide now. How much chlorine dioxide do you have onsite? Can you very briefly describe this process. Please respond by COB Wednesday 2/10/16.

Thank you,

Amber Whisnant

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